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NOTICE OF ALLOWANCE AND FEE(S) DUE

23405

7500

07/24/2009

HESLIN ROTHENBERG FARLEY & MESITI PC 5 COLUMBIA CIRCLE ALBANY, NY 12203 EXAMINER

PORTER, JR, GARY A

ART UNIT PAPER NUMBER

3766

DATE MAILED: 07/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,340	06/21/2007	Anthony Charles Hunt	0435.105	1720

TITLE OF INVENTION: QT-INTERVAL MEASUREMENT IN THE ELECTROCARDIOGRAM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	10/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificate	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of a) specifying a new corre	maintenance fees w spondence address;	rill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDI	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Fee par	e(s) Transmittal. Thi ers. Each additional	s certif I paper	icate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must
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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/575,340	06/21/2007		Anthony Charles Hunt			0435.105	1720
			ECTROCARDIOGRAM				
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0 •		\$1055	10/26/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	_			
PORTER, JI	R, GARY A	3766	600-516000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atto listed, no name will be	of up to 3 registered patent attorneys alternatively, f a single firm (having as a member a racey or agent) and the names of up to tent attorneys or agents. If no name is will be printed.			
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a. Applicant claim	tus (from status indicates s SMALL ENTITY statu	us. See 37 CFR 1.27.	☐ b. Applicant is no lor				
NOTE: The Issue Fee and interest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	trom anyone other than Office.	the applicant; a regi	stered a	attorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name	e			Registration N	o		
an application. Confident submitting the completed his form and/or suggesti	tiality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is es depending upon the indi e Chief Information Offic	timated to take 12 r vidual case. Any co er ILS Patent and '	ninutes mment Traden	s to complete, including is on the amount of time park Office IJS Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/575,340	06/21/2007	Anthony Charles Hunt	0435.105	1720	
23405 75	590 07/24/2009	EXAMINER			
HESLIN ROTH	ENBERG FARLEY &	PORTER, JR, GARY A			
5 COLUMBIA CIRCLE			ART UNIT	PAPER NUMBER	
ALBANY, NY 122	03		3766		
			DATE MAILED: 07/24/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 148 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 148 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/575,340	HUNT, ANTHONY CHARLES				
Notice of Allowability	Examiner	Art Unit				
	GARY A. PORTER, JR	3766				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to and MPEP 1308.	plication. If not included will be mailed in due course. THIS				
1. This communication is responsive to the response received	<u>a 4/10/2009</u> .					
2. 🛮 The allowed claim(s) is/are <u>1-39</u> .						
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements				
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal P6. ☐ Interview Summary	(PTO-413),				
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Dat 7. ⊠ Examiner's Amendr	te ment/Comment				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement of Reasons for Allowance9. Other					
/G. A. P./ Examiner, Art Unit 3766	/Carl H. Layno/ Supervisory Patent Exa	aminer, Art Unit 3766				

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Chris Miller on July 22, 2009.

The application has been amended as follows:

23. (Currently Amended) The apparatus as claimed in claim 22 wherein the acquired ECG signal data has been obtained from an ensemble of orthogonal leads is operable such that the QT interval is determined by a first point of intersection.

40. (Canceled)

Allowable Subject Matter

- 2. Claims 1-39 allowed.
- 3. The following is an examiner's statement of reasons for allowance: Upon review of the closest relevant prior art, the Examiner was unable to find any method that detects the intersection of a first ECG wave and a second inverted ECG wave and then uses the intersection to obtain an accurate reading of a QT interval of an ECG signal. The art found that is most relevant to Applicant's invention teaches signal separation to

detect intervals, but the methods rely solely on a single waveform not an intersection of two waveforms, wherein one is inverted.

4. The most relevant art found is as follows: Xue et al. (5,792,065); Guerrero et al. (6,370,423); Mlynash et al. (6,615,075); Guerrero et al. (2002/0138013); Guerrero et al. (2004/0059203).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GARY A. PORTER, JR whose telephone number is (571)270-5419. The examiner can normally be reached on Monday - Thursday, 8AM - 5PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Layno can be reached on (571)272-4949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/G. A. P./ Examiner, Art Unit 3766 /Carl H. Layno/ Supervisory Patent Examiner, Art Unit 3766